

577		1 3 1 1			•
TTGACACCAG	ACCAACTGGT	AATGGTAGCG	ACCGGCGCTC	AGCTGGGATT	CCTAAAATG
TAATGCACAC	TCCATTGGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCCATG	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCACC	AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTŤŤ	ACCTGTCCAT	GTCTTACTAC	TTTGACCGCG
ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTITCTTCA	CCAATCTCAT	GAGGAGAGGG
AACATGCTGA	GAAACTGATG	AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCAGTCAC	TACTGGAATT	CCCTTCTCCT	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	TATACTACTA	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
COTGALAGTIT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCCGGAA	ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTGGAA	GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	ACTTATCATC
TTCACAATTC	TAATTCTACT	GACTATCCTA	GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAA	GCCTCTACCT	GCACGACAAC	ACATAAAAAA	AA 3"
			•		

Fig. 1

::

DOTEST, CERTOI

PCT/IL99/00485

2/15 CLONE **p47**

GGGGGACGGAACCCGG

Fig. 2A

CGCTCGTTCCCCACCCGGCCGGCCGCCCATAGCCAGCCCTCCGTCAC

CLONE T 16

TTGACACCAG

CTCTTCACCGCACCTCGGACTGCCCCAAGGCCCCCGCCGCCGCTCC
ACACCAACTGGTAATGGTAGCGACCGGCGCTCAGCTGGAATTCCAAAA

AGCGCCGCGCCGCCGCCGCCGCCTCTCCTTAGTCGCCGCC AATGTAATGCACACTCCATTGCATTCAGCCCGCCTCTCCTTAGTCGCCGCC

ATG	ACG	ACC	GCG	TCC	ACC	TCG	CAG	GTG	CGC	CAG
ATG	ACG	ACC	GCG	TCC	ACC	TCG	CAG	GTG	CGC	CAG
	-4		÷ .							
AAC '	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
AAC	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
CGC	CAG	ATC	AAC	CTG	GAG	CTC	TAC	GCC	TCC	TAC
CGC	CAG	ATC	AAC	CTG	GAG	СТС	TAC	GCC	TCC	TAC
GTT	TAC	CTG	TCC	ATG	TCT	TAC	TAC	TTT	GAC	CGC
GTT	TAC	CTG	TCC	ATG	TCT	TAC	TAC	TTT	GAC	CGC
GAT	GAT	GTG	GCT	TTG	AAG	AAC	TTT	GCC	AAA	TAC
GAT	GAT	GTG	GCT	TTG	AAG	AAC	111	GCC	AAA	TAC
		:			·			4.50		
TIT	CTT	ÇAC CAC	CAA CAA	TCT TCT	CAT	GAG GAG	GAG GAG	AGG AGG	GAA GAA	CAT CAT
111		CAC		.0.	OA1		OAG.	700		ОД 1
GCT	GAG	AAA	CTG	ATG	AAG	CTG	CAG	AAC	CAA	CGA
GCT	GAG	AAA	CTG	ATG	AAG	CTG	CAG	AAC	CAA	CGA
COT	000	004	470	TTC	стт	CAG	GAT	ATC	AAG	AAA
GGT GGT	GGC	CGA CGÁ	ATC ATC	TTC	CTT	CAG	GAT	ATC	AAG	AAA
001	000	OGA	Α.Ο		•		. ,			
CCA	GAC	TGT	GAT	GAC	TGG	GAG	AGC	GGG	CTG	AAT
CCA	GAC	TGT	GAT	GAC	TGG	GAG	AGC	GGG	CTG	AAT
004	4.70	C4.C	TOT	CC 4	T-T-A	CAT	***	GAA	AAA	AAT
GCA GCA	ATG ATG	GAG GAG	TGT TGT	GCA GCA	TTA TTA	CAT CAT	TTG TTG	GAA	AAA	AAT
COA	AIG		, 0.	JUN	, , , ,	5 711		O , O ,	,,,,,	
GTG	AAT	CAG	TCA	CTA	CTG	GAA	CTG	CAC	AAA	CTG
GTG	AAT	CAG	TCA	CTA	CTG	GAA	TTC	ССТ	TCT	CCT
		0.0		A 4 ***	C40	000	CAT		T0*	CAC
GCC ATC	ACT TCT	GAC CCC	AAA AGT	AAT CCT	GAC AGC	CCC	CAT TGG	TTG CAT	TGT	GAC TAT
<u> </u>	101	- 000	701							

TTC	Pill	GAG	ACA	CAT	TAC	CTG	AAT	GÁG	CAG	GTG
ACT	ACT	AAC	AGA	CCG	CAA	CCT	CAA	CAC	CAC	CTT
				> .						
AAA	GCC	ATC	AAA	GAA	TTG	GGT	GAC	CAC	GTG	ACC
CTT	CGA	CCC	CGC	CGG	AGG	AAG	AGA	CCC	CAT	TCT
			•		١.					
AAC	TTG	CGC	AAG	ATG	GGA	GCG	CCC	GAA	TCT	GGC
ATA	CCA	ACA	CCT	ATT	CTG	ATT	П	CGG	TCA	ccc
TTG	GCG	GAA	TAT	CTC	TIT	GAC	AAG	CAC	ACC	CTG
TGA	AGTT	ATATTO	TTATC	CTACCA	GCTTC	GGAAT	AATCTC	CCATAT	T	*
						•		_		
GGA	GAC	AGT	GAT	AAT	GAA	AGC	TAA	GCCT	CGGGC1	TAATT
GTAAC	TTACT	ACTCCG	GAAATO	GCTGT	CGCCTA	ACCGC	TAACAT	TACTGO	;	
				TCCCT					Г	
AGGC	CACCTA	CTCAT	SCACCT.	AATTGG	AAGCG	CCACCO	TAGCA	TATCA		
				CTTTTC						
ACCATTAACCTTCCCTCTACACTTATCATCTTCACAATTCTAATTCTACTG										
TTAAGTTCTTTGATTTGTACCATTCCTTCAAATAAAGAAATTTGGTACCCA ACTATCCTAGAAATCGCTGTCGCCTTAATCCAAGCCTACGTTTTCACACT										
ACTA	CCTAG	AAATCG	CTGTC	3CCTTA	ATCCAA	GCCTA	CGTTTT	CACACT		
-										•
AAAAAAA										

Fig. 2A Cont.

55 59 428 569

Homology with FTH 55-428

59-569=ORF

Fig. 2B

6686 CTCCGGAAA

5/15

463 CTTCTCCTATCTCCCAGTCCTAGCTGCTGGCATCACTATACTACTAAC 6486 CTTCTCCTATCTCCCAGTCCTAGCTGCTGGCATCACTATACTACTAAC	512 6535
513 AGACCGCAACCTCAACACCACCTTCTTCGACCCCGCCGGAGGAAGAGACC	562
6536 AGACCGCAACCTCAACACCACCTTCTTCGACCCCGCCGGAGGA <u>G</u> GAGAC	C 6505
563 CCATTCTATACCAACACCTATTCTGATTTTTCGGTCACCCTGAAGTTTAT	612
6506 CCATTCTATACCAACACCTATTCTGATTTTTCGGTCACCCTGAAGTTTAT	6635
613 ATTCTTATCCTACCAGGCTTCGGAATAATCTCCCATATTGTAACTTACTA	662
6636 ATTCTTATCCTACCAGGCTTCGGAATAATCTCCCATATTGTAACTTACTA	6685
663 CTCCGGAAA 671	

Fig. 3

		(6/15		
TTGACACCAG	ACCAACTGGT	AATGGTAGCG	ACCGGCGCTC	AGCTGGGATT ~	- AAAAATG TOTAAAATGT
TAATGCACAC AATGCACACT	TCCATTGCAT CCATTGGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCCATG	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCAGC	AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	TITGACCGCG
ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTITCTTCA	CCAATCTCAT	GAGGAGAGGG
AACATGCTGA	GAAACTGATG	AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCAGTCAC	TACTGGAATT	CCCTTCTCCT	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	TATACTACTA	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
COTGAAGTTT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCCGGAA	ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTGGAA	GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	ACTTATCATC
TTCACAATTC	TAATTCTACT	GACTATCCTA	GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAA	GCCTCTACCT	GCACGACAAC	ACATAAAAAA	AA

Fig. 4

7/15
TTGACACCAGACCAACTGGTAATGGTAGCGACCGGCGCTCAGCTGGAATTCCAAAAAATGT

AATGCACACTCCATTGCATTCAGCCCGCCTCTCCTTAGTCGCCGCC

74475646767664776674764										
met	thr	thr	aja	ser	thr	ser	gln	vai	arg	gin
ATG	ACG	ACC	GCG	TCC	ACC	TCG	CAG	GTG	CGC	CAG
asn	tyr	his	gln	asp	ser	giu	ala	ala	ile	asn
AAC	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
arg	gin	ile	asn	leu	glu	leu	tyr	ala	ser	tyr
CGC	CAG	ATC	AAC	CTG	GAG	CTC	TAC	GCC	TCC	TAC
val	tyr	leu	ser	met	ser	tyr	tyr	phe	asp	arg
GTT	TAC	CTG	TCC	ATG	тст	TAC	TAC	TTT	GAC	CGC
asp	asp	val	ata	leu	lys	asn	phe	ala	lys	tyr
GAT	GAT	GTG	GCT	TTG	AAG	AAC	777	GCC	· AAA	TAC
phe	leu	his	gin	ser TCT	his CAT	glu _. GAG	glu GAG	arg AGG	gin GAA	his CAT
TTT	стт	CAC	CAA	TCT	CAI	GAG	GAG	AGG	GAA	ÇA:
ala GCT	glu GAG	lys AAA	leu CTG	met ATG	lys AAG	leu CTG	gin CAG	asn . AAC	gin CAA	arg CGA
gly GGT	gly GGC	airg CGA	ile ATC	phe TTC	leu CTT	gin CAG	asp GAT	ile ATC	lys AAG	lys AAA
										•
pro CCA	asp GAC	cys TGT	asp GAT	asp GAC	trp TGG	glu GAG	ser AGC	gly GGG	leu CTG	asn AAT
ala	met	glu	cys	ala	leu	his	leu	glu	lys	asn
GCA	ATG	GAG	TGT	∽ GCA	TTA	CAT	TTG	GAA	AAA	AAT
vai	asn	gln	ser	leu	leu	glu	phe	pro	ser	pro
GTG	AAT	CAG	TCA	CTA	CTG	GAA	тс	сст	тст	CCT
īle .	ser	рго	ser	pro	ser	cys	trp	his	his	thr
ATC	тст	ccc	AGT	CCT	AGC	TGC	TGG	CAT	CAC	TAT
thr	thr	asn	arg	pro	glu	pro	gln	his	his	leu
ACT	ACT	AAC	AGA	CCG	CAA	CCT	CAA	CAC	CAC	стт
leu	arg	рго	arg	arg	arg	lys	arg	pro	his	ser
CTT	CGA	CCC	CGC	CGG	AGG	AAG	AGA	ccc	CAT	тст
ile	pro	thr	pro	ile	leu	ile	phe	arg	ser	pro
ATA	CCA	ACA	CCT	ATT	CTG	ATT	TIT	CGG	TCA	ccc

TGA AGTITATATTCTTATCCTACCAGGCTTCGGAATAATCTCCCATATTGTAACTTAC

TACTCCGGAAATCGCTGTCGCCTAACCGCTAACATTACTGCAGGCCACCTACTCATGCAC

CTAATTGGAAGCGCCACCCTAGCAATATCAACCATTAACCTTCCCTCTACACTTATCATC

TTCACAATTCTAATTCTACTGACTATCCTAGAAATCGCTGTCGCCTTAATCCAAGCCTAC

GTTTTCACACTTTGGTACCCAAAAAAAA

Fig. 5

Fig. 64

RATIO OF ACTIN (PSL)	HBL	T47D	MCF7
FTH (530bp)/ACTIN	58.2	77.8	89
CFF1 (SPF-16R)/ACTIN	35.4	150.4	134.7

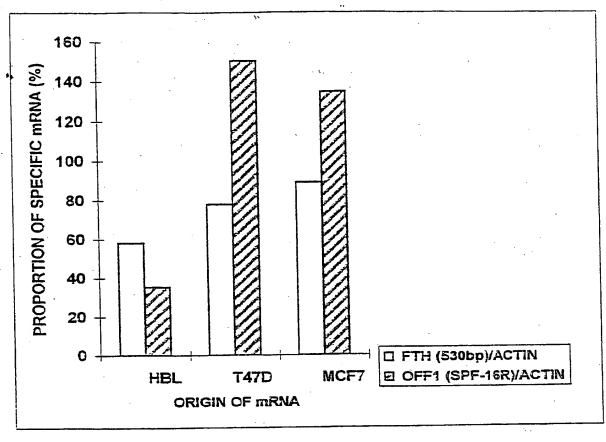


Fig. 6B

PCT/IL99/00485

<u>=</u>	1061 TGACACCAG	ACCAACTGGT	<u>AATG</u> GTAGCG	BNC ACCGGCGCTC	AGCTGGAATTI	CCAAAAAATG
Ī	NCS AATGCACACI	TCCATTGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCCATG	ACGACCGCGT
С	CACCTCGCA	GGTGCGCCAG	AACTACCACC	X1 AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
	CAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	17 TTTGACCGCG
* [2	17 .TGATGTGGQ	TTTGAAGAAC	TTTGCCAAAT	ACTTTCTTCA	CCAATCTCAT	GAGGAGAGGG
Á	ACATGCTGA	GAAACTGATG	AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
£	ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	2.1 GAATGCAATG	GAGTGTGCAT
7	TACATTTGGA	AAAAAATGTG	AATCAGTCAC	ECOF TACTGGAATT	ccerreredi	_ ATCTCTCCCA
(STCCTAGCTG	CTGGCATCAC	TATACTACTA	ACAGACCGCA	ACCTCAACAC	CACCITCTIC
•	GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
	CCTGAAGTTT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
	TACTCCGGAA	SPF ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
	CTAATTG <mark>GAA</mark>	728 GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	767 ACTTATCATO
	767 [TTCACAATTC	MAATTCTACT	GACTATCCTA	16 GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
	GTTTTCACAC	TTCTAGTAA	GCCTCTACCT	GCACGACAAC	ACATAAAAAA	AA

Fig. 7

WO 00/15788					PCT/IL99/0048
	-		11/15		
TTGACACCAG	ACCAACTGGT	AATGGTAGCG	ACCGGCGCTC	AGCTGGAATT	CCAAAAAATG
TAATGCACAC	TCCATTGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCC <u>4270</u>	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCACC	AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	TTTGACCGCG
ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTITICTTCA	CCAATCTCAT	GAGGAGAÇGG
AACATGCTGA	GAAACTGATG	Pst1 AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCAGTCAC	ECOR1 TACI <u>TGGAAT</u> IT	ccerrereer	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	ТАТАСТАСТА	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
CCTGAAGTTT	ATATTCTTAT :	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCCGGAA	ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTGGAA	GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	ACTTATCATC
TTCACAATTC	TAATTCTACT	GACTATCCTA	GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAA	GCCTCTACCT	GCACGACAAC	ACATAAAAAA	AA

Fig. 8

PCT/IL99/00485 WO 00/15788 12/15

Fig. 9

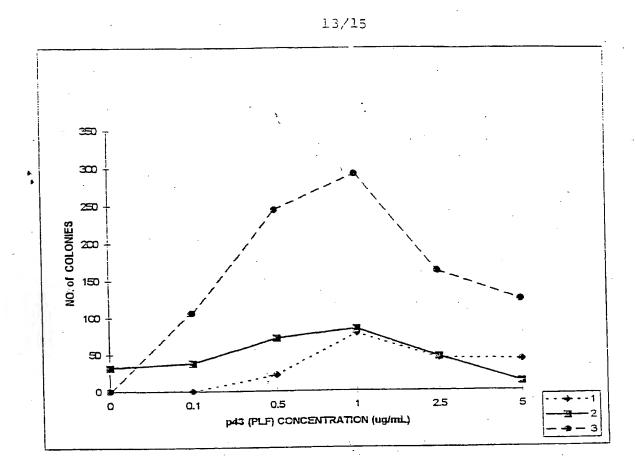


Fig. 10

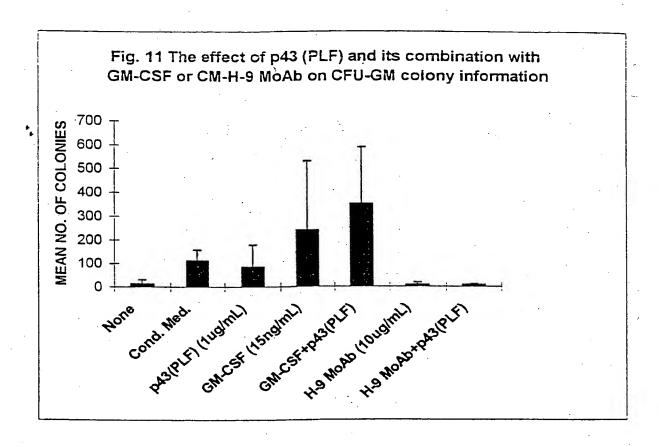


Fig. 11

C. T. C. T. W. T. C. WITE

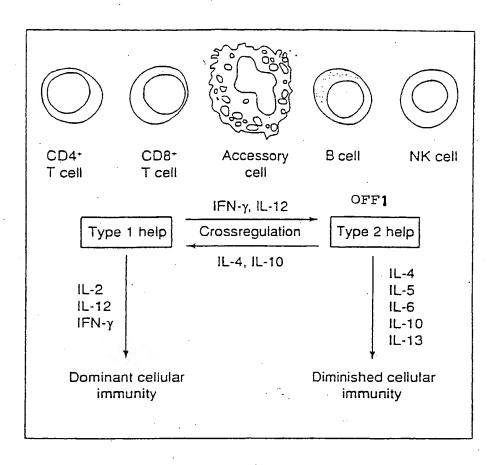


Fig. 12